

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University for Medicals and Applied Sciences



Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Specification of **Pharmacotherapy-III**

Course No. (02.01.218)

2021/2022

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi	Dr. Hassan Al Mahbashi	Dr. -----	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

I. Course Identification and General Information:

1	Course Title:	Pharmacotherapy-III			
2	Course Code & Number:	02.01.218			
3	Credit Hours:	Credit Hours	Theory Hours		Practical
			Lecture	Exercise	
		2	2	--	-
4	Study Level/ Semester at which this Course is offered:	5 th Level / 1 st Semester			
5	Pre –Requisite (if any):	Pharmacology-IV			
6	Co –Requisite (if any):	Case Studies in Therapeutics (3): “case-based seminars”			
7	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm. D			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Clinical Pharmacy			
12	Prepared by:	Dr. Ali Alyahawi			
13	Date of Approval:				

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Dr. Ali Alyahawi	Dr. Hassan Al Mahbashi	Dr. ----	Dr. Abdulalah Thabet	Dr. Ali Alyahawi

II. Course Description:

The course content is supportive for pharmacy practice and integrated cases III course and is complementary to pathophysiology and pharmacology courses. The course content aims to understand the pathophysiology, clinical presentations, complications, goals of therapy, and rational pharmacotherapy regimens of respiratory / GIT diseases/bones and joints diseases.

III. Course Intended Learning Outcomes (CILOs)		Referenced PILOs Learning out of program
A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:		
a1	Describe the pathophysiology, clinical presentations, and prognosis of respiratory/ GIT diseases/ Bones and Joints diseases.	A1
a2	Define the goals of therapy for respiratory / GIT diseases/Bones and Joints diseases.	A5
B. Intellectual Skills: Upon successful completion of the course, students will be able to:		
b1	Construct appropriate drugs regimen and monitoring plan of respiratory / GIT diseases/Bones and Joints diseases.	, B4, B5
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:		
c1	Implement rational pharmacotherapy regimens and monitoring parameters to achieve targeted therapeutic goals of Respiratory/ GIT diseases/Bones and Joints diseases.	C3, C4
c2	Evaluate drug therapy and the outcomes of an implemented pharmacotherapeutic plan	C3, C4
D. Transferable Skills: Upon successful completion of the course, students will be able to:		
d1	Search effectively and interpret properly medical information from professional medical references	D1, D2, D3
d2	Share successfully therapeutic decisions in a healthcare team.	D1

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(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1- Describe the pathophysiology, clinical presentations, and prognosis of respiratory/ GIT diseases/ Bones and Joints diseases.	Lecture Instructor – student Interactive Office hour	Exam Assignment Quiz
a2- Define the goals of therapy for respiratory / GIT diseases/Bones and Joints diseases.	Lecture Instructor – student Interactive Office hour	Exam Assignment Quiz

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1- Construct appropriate drugs regimen and monitoring plan of respiratory / GIT diseases/Bones and Joints diseases.	Lecture Instructor – student Interactive Exercises Solving Problem Methods	Problem-Solving Exercises. Assignment Quiz

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
C1- Implement rational pharmacotherapy regimens and monitoring parameters to achieve targeted therapeutic goals of Respiratory/ GIT diseases/Bones and Joints diseases.	Lecture Instructor – student Interactive Self-Learning	Exam Assignment Quiz
C2- Evaluate drug therapy and the outcomes of an implemented pharmacotherapeutic plan	Lecture Instructor – student Interactive Self-Learning	Exam Assignment Quiz

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1- Search and interpret properly medical information from professional medical references	Self-Learning Seminar	Presentation Assignment

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	Exercises	
d2- Share successfully therapeutic decisions in team-work.	Seminar Instructor–student Interactive Exercises	Presentation

IV. Course Content:					
A – Theoretical Aspect:					
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact Hours
1	GIT diseases	a 1, a 2, b1 ,c1, c2, d 1	- Peptic Ulcer Disease (PUD)	1	2
			- Gastroesophageal Reflux Disease (GERD)	1	2
			- Ulcerative colitis (UC)	1	2
			- Crohn's Disease (CD)	1	2
			- Irritable Bowel Syndrome (IBS)	1	2
			- Complications of Cirrhosis	2	4
			- Clinical Presentation and Diagnosis of Viral Hepatitis	1	2
2	Midterm Exam	a 1, a 2, b1, c1, c2,		1	2
3	GIT diseases	a 1, a 2, b1,	- Management of Viral Hepatitis	1	2
4	Respiratory diseases	a 1, a 2, b1, c1, c2, d 1, d 2	- Bronchial Asthma	1	2
			- Chronic Obstructive Pulmonary Disease (COPD)	1	2
5	Bones and Joints diseases	a 1, a 2, b1, ,c1, c2, d 1, d2	- Osteoporosis	1	2
			- Rheumatoid Arthritis (RA)	1	2
			- Gout and Hyperuricemia	1	2
			- Musculoskeletal Disorders	1	2
6	Final Exam	a1,a2,b1, c1,c2,		1	32
Number of Weeks /and Units Per Semester				16	32

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V. Teaching Strategies of the Course:

- Lecture
- Instructor – student Interactive
- Exercises
- Presentation
- Office hours
- Seminar
- Assignment
- Self-Learning

VI. Assessment Methods of the Course:

- Assignments
- Quiz
- Exam

VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Develop Pharmaceutical Care plan for patient with IBD	a 1, a 2, b1, ,c1, c2, d 1, d 2	3th	2.5
2	Assignment 2: Develop Pharmaceutical Care plan for patient with bronchial asthma	a 1, a 2, b1, ,c1, , c2d 1, d 2	6th	2.5
3	Assignment 3: Develop Pharmaceutical Care plan for patient with HE	a 1, a 2, b1, ,c1, c2, d 1, d 2	9th	2.5
4	Assignment 4: Develop Pharmaceutical Care plan for patient with hepatitis B	a 1, a 2, b1, ,c1, c2, d 1, d 2	13th	2.5
Total				10

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VIII. Schedule of Assessment Tasks for Students During the Semester

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	3 rd , 12 th	10	10%	a1, a 2, b1,, b2, c1, d 1, d 2
2	Quiz	2 nd -13 th	5	5%	a 1, a 2, b1,c1, c2
3	Midterm Exam (Theory)	Week 7	20	20%	a 1, a 2, b1,c1, d 2
4	Quiz	14 th	5	5%	a1, a2, c1, c2
5	Final Exam (Theory)	Week 16	60	60%	a 1, a 2, b1,b2, ,c1,
Total			100	100%	

IX. Learning Resources:

- Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

- 1- Chisholm-Burns et al, 2019. Pharmacotherapy principles & practice. ed. , 5th edition
- 2- Katzung, 2018. Basic & Clinical Pharmacology, ed., 14th edition.

2- Essential References.

- 1- DiPiro et al, 11th edition, 2020. Pharmacotherapy: A Pathophysiological Approach, ed. edition.
2. Carolin, 2018. Applied Therapeutics: The Clinical Use of Drugs, 11th edition.
3. Walker & Whittlesea, 6th edition, 2018. Clinical Pharmacy and Therapeutics, ed. Walk Whittlesea, 6th edition, 2018.

3- Electronic Materials and Web Sites etc.

- 1- www.accesspharmacy.com
- 2- Disease management guidelines (specified in lecture notes)

X. Course Policies: (Based on the Uniform Students' By law (2007))

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.

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3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
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7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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Faculty of Clinical Pharmacy

Program of Clinical Pharmacy & Pharm. D.

Course Plan (Syllabus) of Pharmacotherapy-III

Course No. (02.01.218)

2021/2022

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I. Information about Faculty Member Responsible for the Course:

Name of Faculty Member:	Dr. Ali Alyahawi	Office Hours					
Location & Telephone No.:							
E-mail:		SAT	SUN	MON	TUE	WED	THU

II. Course Identification and General Information:

1	Course Title:	Pharmacotherapy-III			
2	Course Code & Number:	02.01.218			
3	Credit Hours:	Credit Hours	Theory Hours		Practical
			Lecture	Exercise	
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5	Pre –Requisite (if any):	Pharmacology-IV			
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IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

a1	Describe the pathophysiology, clinical presentations, and prognosis of respiratory/ GIT diseases/ Bones and Joints diseases.	A 1
a2	Define the goals of therapy for respiratory / GIT diseases/Bones and Joints diseases.	A 5

B. Intellectual Skills: Upon successful completion of the course, students will be able to:

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C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:

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c2	Evaluate drug therapy and the outcomes of an implemented pharmacotherapeutic plan	C 3 , C 4
D. Transferable Skills: Upon successful completion of the course, students will be able to:		
d1	Search effectively and interpret properly medical information from professional medical references	D 1 , D 2 , D 3
d2	Share successfully therapeutic decisions in a healthcare team.	D 1

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V. Course Contents:

A. Theoretical Aspect:

Order	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
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		- Clinical Presentation and Diagnosis of Viral Hepatitis	1	2
2	Midterm Exam		1	2
3	GIT diseases	- Management of Viral Hepatitis	1	2
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		- Rheumatoid Arthritis (RA)	1	2
		- Gout and Hyperuricemia	1	2
		- Musculoskeletal Disorders	1	2
6	Final Exam		1	32
Number of Weeks /and Units Per Semester			16	32

VI. Teaching Strategies of the Course:

Lecture
Instructor – student Interactive
Exercises
Presentation
Office hours
Seminar

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Assignment
Self-Learning

VII. Assessment Methods of the Course:

Assignments
Quiz
Exam

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